

=====

Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2009; month=7; day=14; hr=9; min=7; sec=4; ms=206;]

=====

Application No: 10586701 Version No: 3.0

Input Set:

Output Set:

Started: 2009-06-29 14:25:24.111
Finished: 2009-06-29 14:25:25.058
Elapsed: 0 hr(s) 0 min(s) 0 sec(s) 947 ms
Total Warnings: 12
Total Errors: 0
No. of SeqIDs Defined: 19
Actual SeqID Count: 19

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 402	Undefined organism found in <213> in SEQ ID (14)

SEQUENCE LISTING

<110> Merck & Co., Inc.

Filocamo, Gessica

Steinkuhler, Christian

<120> INHIBITORS OF MAMMALIAN HDAC 11 USEFUL

FOR TREATING HDAC 11 MEDIATED DISORDERS

<130> ITR0064YP

<140> 10586701

<141> 2009-06-29

<150> US 60/537,940

<151> 2004-01-21

<150> PCT/EP2005/000559

<151> 2005-01-18

<160> 19

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 1755

<212> DNA

<213> Homo sapiens

<400> 1

```

agcttttggga gggccggccc cgggatgcta cacacaaccc agctgtacca gcatgtgcca 60
gagacaccct ggccaatcgt gtactcgccg cgctacaaca tcaccttcat gggcctggag 120
aagctgcatc cctttgatgc cgaaaatgg ggcaaagtga tcaatttcct aaaagaagag 180
aagcttctgt ctgacagcat gctggtggag gcgcgggagg cctcgaggga ggacctgctg 240
gtggtgcaca cgaggcgcta tcttaatgag ctcaagtggg cctttgctgt tgctaccatc 300
acagaaatcc ccccggttat cttcctcccc aacttccttg tgagaggaa ggtgctgagg 360
ccccttcgga ccagacagg aggaaccata atggcgggga agctggctgt ggagcgaggc 420
tgggccatca acgtgggggg tggtttccac cactgctcca gcgaccgtgg cgggggcttc 480
tgtgctatg cgacatcac gctcgccatc aagtttctgt ttgagcgtgt ggagggcatc 540
tccagggcta ccatcattga tcttgatgcc catcagggca atgggcatga gcgagacttc 600
atggacgaca agcgtgtgta catcatggat gtctacaacc gccacatcta ccagggggac 660
cgctttgcca agcaggccat caggcggaag gtggagctgg agtggggcac agaggatgat 720
gagtacctgg ataaggtgga gaggaacatc aagaaatccc tccaggagca cctgcccgc 780
gtggtggtat acaatgcagg caccgacatc ctcgaggggg accgccttgg ggggctgtcc 840
atcagcccag cgggcatcgt gaagcgggat gagctggtgt tccgatggg ccgtggccgc 900
cgggtgcca teettatggt gacctcaggc gggtagcaga agcgacagc ccgcatcatt 960
gctgactcca tacttaatct gtttgacctg gggctcattg ggctgagtc accagcgtc 1020
tccgcacaga actcagacac accgctgctt cccctgcag tgccctgacc cttgctgccc 1080
tgctgtcac gtggccctgc ctatccgccc cttagtgctt tttgttttct aacctcatgg 1140
gggtggtggag gcagccttca gtgagcatgg aggggcaggg ccatccctgg ctggggcctg 1200
gagctggccc ttctctact ttccctgct ggaagccaga agggcttgag gcctctatgg 1260
gtgggggcag aaggcagagc ctgtgtccca gggggacca cacgaagtca ccagcccata 1320
ggtccaggga ggcaggcagt taactgagaa ttggagagga caggctaggt ccagggcaca 1380
gcgagggccc tgggcttggt gtgttctggt tttgagaacg gcagaccag gtcggagtga 1440

```

ggaagcttcc acctccatcc tgactaggcc tgcatacctaa ctgggcctcc ctccctcccc 1500
 ttggtcatgg gatttgctgc cctctttgcc ccagagctga agagctatag gcactggtgt 1560
 ggatggccca ggaggtgctg gagctaggtc tccaggtggg cctggttccc aggcagcagg 1620
 tgggaaccct gggcctggat gtgaggggcg gtcaggaagg ggtacaggtg ggttcctca 1680
 tctggagttc cccctcaata aagcaaggtc tggacctgca aaaaaaaaaa aaaaaaaaaa 1740
 aaaaaaaaaa aaaaaa 1755

<210> 2
 <211> 347
 <212> PRT
 <213> Homo sapiens

<400> 2
 Met Leu His Thr Thr Gln Leu Tyr Gln His Val Pro Glu Thr Pro Trp
 1 5 10 15
 Pro Ile Val Tyr Ser Pro Arg Tyr Asn Ile Thr Phe Met Gly Leu Glu
 20 25 30
 Lys Leu His Pro Phe Asp Ala Gly Lys Trp Gly Lys Val Ile Asn Phe
 35 40 45
 Leu Lys Glu Glu Lys Leu Leu Ser Asp Ser Met Leu Val Glu Ala Arg
 50 55 60
 Glu Ala Ser Glu Glu Asp Leu Leu Val Val His Thr Arg Arg Tyr Leu
 65 70 75 80
 Asn Glu Leu Lys Trp Ser Phe Ala Val Ala Thr Ile Thr Glu Ile Pro
 85 90 95
 Pro Val Ile Phe Leu Pro Asn Phe Leu Val Gln Arg Lys Val Leu Arg
 100 105 110
 Pro Leu Arg Thr Gln Thr Gly Gly Thr Ile Met Ala Gly Lys Leu Ala
 115 120 125
 Val Glu Arg Gly Trp Ala Ile Asn Val Gly Gly Gly Phe His His Cys
 130 135 140
 Ser Ser Asp Arg Gly Gly Gly Phe Cys Ala Tyr Ala Asp Ile Thr Leu
 145 150 155 160
 Ala Ile Lys Phe Leu Phe Glu Arg Val Glu Gly Ile Ser Arg Ala Thr
 165 170 175
 Ile Ile Asp Leu Asp Ala His Gln Gly Asn Gly His Glu Arg Asp Phe
 180 185 190
 Met Asp Asp Lys Arg Val Tyr Ile Met Asp Val Tyr Asn Arg His Ile
 195 200 205
 Tyr Pro Gly Asp Arg Phe Ala Lys Gln Ala Ile Arg Arg Lys Val Glu
 210 215 220
 Leu Glu Trp Gly Thr Glu Asp Asp Glu Tyr Leu Asp Lys Val Glu Arg
 225 230 235 240
 Asn Ile Lys Lys Ser Leu Gln Glu His Leu Pro Asp Val Val Val Tyr
 245 250 255
 Asn Ala Gly Thr Asp Ile Leu Glu Gly Asp Arg Leu Gly Gly Leu Ser
 260 265 270
 Ile Ser Pro Ala Gly Ile Val Lys Arg Asp Glu Leu Val Phe Arg Met
 275 280 285
 Val Arg Gly Arg Arg Val Pro Ile Leu Met Val Thr Ser Gly Gly Tyr
 290 295 300
 Gln Lys Arg Thr Ala Arg Ile Ile Ala Asp Ser Ile Leu Asn Leu Phe
 305 310 315 320
 Gly Leu Gly Leu Ile Gly Pro Glu Ser Pro Ser Val Ser Ala Gln Asn
 325 330 335
 Ser Asp Thr Pro Leu Leu Pro Pro Ala Val Pro
 340 345

<210> 3	
<211> 21	
<212> RNA	
<213> Artificial Sequence	
<220>	
<223> Completely synthetic oligonucleotide	
<400> 3	
aaguuucugu uugagcgugu g	21
<210> 4	
<211> 23	
<212> RNA	
<213> Artificial Sequence	
<220>	
<223> Completely synthetic oligonucleotide	
<400> 4	
aaugggcaug agcgagacuu aac	23
<210> 5	
<211> 21	
<212> RNA	
<213> Artificial Sequence	
<220>	
<223> Completely synthetic oligonucleotide	
<400> 5	
aacucagaca caccgcugcu u	21
<210> 6	
<211> 21	
<212> RNA	
<213> Artificial Sequence	
<220>	
<223> Completely synthetic oligonucleotide	
<400> 6	
aacugagaau uggagaggac a	21
<210> 7	
<211> 21	
<212> RNA	
<213> Artificial Sequence	
<220>	
<223> Completely synthetic oligonucleotide	
<400> 7	
caaagacaaa cucgcacaca a	21

<210> 8	
<211> 23	
<212> RNA	
<213> Artificial Sequence	
<220>	
<223> Completely synthetic oligonucleotide	
<400> 8	
accgguacuc gcucugaauu gaa	23
<210> 9	
<211> 21	
<212> RNA	
<213> Artificial Sequence	
<220>	
<223> Completely synthetic oligonucleotide	
<400> 9	
gagucugugu ggcgacgaaa a	21
<210> 10	
<211> 21	
<212> RNA	
<213> Artificial Sequence	
<220>	
<223> Completely synthetic oligonucleotide	
<400> 10	
gacucuuaac cucuccugua a	21
<210> 11	
<211> 19	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Completely synthetic oligonucleotide	
<400> 11	
cctcaggcgg gtaccagaa	19
<210> 12	
<211> 24	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Completely synthetic oligonucleotide	
<400> 12	
caggccaaac agattaagta tggg	24
<210> 13	
<211> 21	

<212> DNA

<213> Artificial Sequence

<220>

<223> Completely synthetic oligonucleotide

<400> 13

cgcacagccc gcattcattgc t

21

<210> 14

<211> 15

<212> PRT

<213> Artifical Sequence

<220>

<223> Completely synthetic

<400> 14

Met Leu His Thr Thr Gln Leu Tyr Gln His Val Pro Glu Thr Arg

1 5 10 15

<210> 15

<211> 12

<212> PRT

<213> Homo sapiens

<400> 15

Ala Ala Gly Gly Gly Cys Cys Gly Cys Gly Gly Cys

1 5 10

<210> 16

<211> 10

<212> PRT

<213> Homo sapiens

<400> 16

Gly Cys Gly Gly Ala Gly Cys Gly Gly Gly

1 5 10

<210> 17

<211> 15

<212> PRT

<213> Homo sapiens

<400> 17

Gly Gly Gly Cys Ala Gly Ala Gly Cys Gly Ala Gly Ala Cys Cys

1 5 10 15

<210> 18

<211> 15

<212> PRT

<213> Homo sapiens

<400> 18

Cys Cys Ala Gly Ala Cys Ala Cys Ala Cys Cys Gly Cys Gly Cys
1 5 10 15

<210> 19

<211> 16

<212> PRT

<213> Homo sapiens

<400> 19

Cys Gly Ala Gly Ala Ala Gly Gly Ala Gly Ala Gly Gly Ala Cys Ala
1 5 10 15